



Docket No.: 63979-042

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**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application of

Takashi OHTSUKA, et al.

Serial No.: 10/829,235

Filed: April 22, 2004

For: A NON-VOLATILE MEMORY CELL AND A METHOD OF CONTROLLING THE SAME

: Customer Number: 20277  
: Confirmation Number: 7116  
: Group Art Unit: 2818  
: Examiner: Unknown

**LETTER**

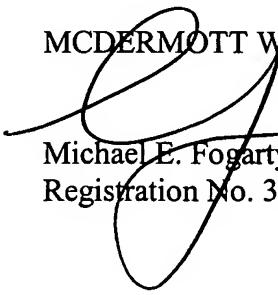
Mail Stop IDS  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith is a copy of the English Translation of the Japanese Search Report for the above references application. Also enclosed are the PCT/IB/308 and the PCT/IB/304 forms.

Respectfully submitted,

MCDERMOTT WILL & EMERY LLP

  
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Registration No. 36,139

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**Date: July 22, 2004**

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/14692

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> G11C11/22

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> G11C11/22

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2004
Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 8-180672 A (Mitsubishi Electric Corp.), 12 July, 1996 (12.07.96), Full text; all drawings & US 5751627 A	1-19
A	JP 2000-331482 A (Rohm Co., Ltd.), 30 November, 2000 (30.11.00), Full text; all drawings & US 6240013 B1	1-19
A	JP 64-66899 A (Ramutoron Corp.), 13 March, 1989 (13.03.89), Full text; all drawings (Family: none)	1-19

 Further documents are listed in the continuation of Box C. See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search  
24 February, 2004 (24.02.04)Date of mailing of the international search report  
09 March, 2004 (09.03.04)Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/JP03/14692

**C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 8-264728 A (NEC Corp.), 11 October, 1996 (11.10.96), Full text; all drawings (Family: none)	1-19
A	JP 2000-293989 A (NEC Corp.), 20 October, 2000 (20.10.00), Full text; all drawings & KR 2000/071586 A & US 6285575 B1 & KR 383828 B	1-19

## PATENT COOPERATION TREATY

PCT

NOTIFICATION CONCERNING  
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(PCT Administrative Instructions, Section 411)

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Japan



Date of mailing (day/month/year) 20 January 2004 (20.01.2004)	
Applicant's or agent's file reference P03-86	<b>IMPORTANT NOTIFICATION</b>
International application No. PCT/JP2003/014692	International filing date (day/month/year) 19 November 2003 (19.11.2003)
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 25 November 2002 (25.11.2002)
Applicant MATSHUSITA ELECTRIC INDUSTRIAL CO., LTD. et al	

1. By means of this Form, which replaces any previously issued notification concerning submission or transmittal of priority documents, the applicant is hereby notified of the date of receipt by the International Bureau of the priority document(s) relating to all earlier application(s) whose priority is claimed. Unless otherwise indicated by the letters "NR", in the right-hand column or by an asterisk appearing next to a date of receipt, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
2. (If applicable) The letters "NR" appearing in the right-hand column denote a priority document which, on the date of mailing of this Form, had not yet been received by the International Bureau under Rule 17.1(a) or (b). Where, under Rule 17.1(a), the priority document must be submitted by the applicant to the receiving Office or the International Bureau, but the applicant fails to submit the priority document within the applicable time limit under that Rule, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
3. (If applicable) An asterisk(\*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b) (the priority document was received after the time limit prescribed in Rule 17.1(a) or the request to prepare and transmit the priority document was submitted to the receiving Office after the applicable time limit under Rule 17.1(b)). Even though the priority document was not furnished in compliance with Rule 17.1(a) or (b), the International Bureau will nevertheless transmit a copy of the document to the designated Offices, for their consideration. In case such a copy is not accepted by the designated Office as priority document, Rule 17.1(c) provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
25 Nove 2002 (25.11.2002)	2002-340588	JP	15 Janu 2004 (15.01.2004)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 338.70.10	Authorized officer Althea NEVERS (Fax 338 7010) Telephone No. (41-22) 338 8392
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From the INTERNATIONAL BUREAU

## PCT

## NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

To:

SAEGUSA, Eiji  
 Kitahama TNK Building  
 1-7-1, Doshomachi, Chuo-ku  
 Osaka-shi, Osaka 541-0045  
 JAPON



Date of mailing (day/month/year) 10 June 2004 (10.06.2004)
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Applicant's or agent's file reference P03-86	IMPORTANT NOTICE	
International application No. PCT/JP2003/014692	International filing date (day/month/year) 19 November 2003 (19.11.2003)	Priority date (day/month/year) 25 November 2002 (25.11.2002)
Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. et al		

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this notice:

AU, AZ, BY, CH, CN, CO, DZ, EP, HU, JP, KG, KR, MD, MK, MZ, RU, TM, US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE, AG, AL, AM, AP, AT, BA, BB, BG, BR, BW, BZ, CA, CR, CU, CZ, DE, DK, DM, EA, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, KE, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MG, MN, MW, MX, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, SC, SD, SE, SG, SK, SL, SY, TJ, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this notice is a copy of the international application as published by the International Bureau on 10 June 2004 (10.06.2004) under No. WO 2004/049346

4. TIME LIMITS for filing a demand for international preliminary examination and for entry into the national phase

The applicable time limit for entering the national phase will, subject to what is said in the following paragraph, be 30 MONTHS from the priority date, not only in respect of any elected Office if a demand for international preliminary examination is filed before the expiration of 19 months from the priority date, but also in respect of any designated Office, in the absence of filing of such demand, where Article 22(1) as modified with effect from 1 April 2002 applies in respect of that designated Office. For further details, see *PCT Gazette* No. 44/2001 of 1 November 2001, pages 19926, 19932 and 19934, as well as the *PCT Newsletter*, October and November 2001 and February 2002 issues.

In practice, time limits other than the 30-month time limit will continue to apply, for various periods of time, in respect of certain designated or elected Offices. For regular updates on the applicable time limits (20, 21, 30 or 31 months, or other time limit), Office by Office, refer to the *PCT Gazette*, the *PCT Newsletter* and the *PCT Applicant's Guide*, Volume II, National Chapters, all available from WIPO's Internet site, at <http://www.wipo.int/pct/en/index.html>.

For filing a demand for international preliminary examination, see the *PCT Applicant's Guide*, Volume I/A, Chapter IX. Only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II).

It is the applicant's sole responsibility to monitor all these time limits.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer  Masashi Honda
Facsimile No.+41 22 740 14 35	Facsimile No.+41 22 338 70 10

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